

Digital Earth 2001

Ter(r)ascale Ter(r)acomputing Framework: A High Performance Information Technology Framework for Global Scale High Resolution Remote Sensed Data

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Abstract Number: de-a-156

Abstract

This paper describes a proposed high performance IT framework capable of operation on the highest resolution remote sensed data at a global scale. The system will include a global datastore utilizing a digital global grid system to host global hyperspectral Landsat and global SRTM derived DEM and image. This datastore will be accessed via OpenGIS protocols and other public standards by various supercomputing applications running on NASA's terascale testbed.

This framework was proposed to NASA HPCC/ESS CAN 2000

Keywords: